

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Docket: EIS-SCHWARTZ=1A

In re Application of:	)	Art Unit: 1647
EISENBACH-SCHWARTZ et al	)	Examiner: S. Turner
Appln. No.: 09/218,277	)	Washington, D.C.
Filed: December 22, 1998	)	
For: T-CELLS, NERVOUS SYSTEM-	)	
SPECIFIC ANTIGENS AND	)	
THEIR USES	)	

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DECLARATION

Honorable Commissioner for Patents  
Washington, D.C. 20231

Sir:

I, the undersigned Michal SCHWARTZ, also known as Michal EISENBACH-SCHWARTZ, hereby declare and state as follows:

I am an inventor of the above-identified application. A true and correct copy of my *curriculum vitae* is attached hereto as Exhibit A.

I am an author of Hauben et al, "Passive or active immunization with myelin basic protein promotes recovery from spinal cord contusion", J Neurosci 20(17):6421-6430 (2000) and Hauben et al, "Autoimmune T cells as potential neuroprotective therapy for spinal cord injury", Lancet 355(9200):286-287 (2000), both of which are hereby collectively referred to hereinafter as "the publications". On information and belief,

copies of the publications are of record in this case, having been submitted as attachments to the amendment of March 5, 2001.

The experimentation reported in the publications was performed in my laboratory, either by me or under my supervision. The following statement is, therefore, made from first-hand information.

I have read the publications and the nature of the experiments conducted in my laboratory are accurately reported therein, as are all of the results of the experimentation reported therein. Thus, everything in the publications is true and accurate to the best of my knowledge and belief.

The undersigned declares further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

23.4.2001  
Date

Michal Schwartz  
Michal SCHWARTZ

## CURRICULUM VITAE

### Personal Details

Full Name: Michal Schwartz  
 Place of Birth: Tel Aviv, Israel  
 Marital Status: Married; four children

### Education and Research Experience

1968–1971	B.Sc. in Chemistry, The Hebrew University of Jerusalem, Israel.
1972–1977	Ph.D. in Chemical Immunology, Department of Chemical Immunology, The Weizmann Institute of Science, Rehovot, Israel. Thesis: The molecular and cellular basis of the genetic control of the immune response to newly synthesized ordered polypeptides. Supervisors: Profs. M. Sela and E. Mozes.
1977–1978	Postdoctoral Fellow, Department of Chemical Immunology, The Weizmann Institute of Science. Research subject: Neuroimmunology - Immunological aspects of myasthenia gravis, in collaboration with Prof. S. Fuchs.
1978–1980	Postdoctoral fellow, Prof. B. Agranoff's Laboratory, Department of Neuroscience, University of Michigan, Ann Arbor, MI, USA. Research subject: Biochemical aspects of nerve regeneration.
1980–1985	Senior Scientist, Department of Neurobiology, The Weizmann Institute of Science.
1985–1998	Associate professor with tenure, Department of Neurobiology, The Weizmann Institute of Science.
1987–	Maurice and Ilse Katz Professorial Chair in Neuroimmunology.
1988–1992	Visiting Associate Professor, Department of Anatomy, Medical College of Pennsylvania, PA, USA.
1998	Professor, Department of Neurobiology, The Weizmann Institute of Science, Rehovot, Israel

## Honors

1970	B'nei-Brith Prize for Distinguished Students (awarded by the Hebrew University of Jerusalem).
1971	Prize for Distinguished B.Sc. Students (awarded by the Hebrew University of Jerusalem).
1977	Landau Prize for Distinguished Ph.D. Students (awarded by the Feinberg Graduate School, The Weizmann Institute of Science).
1978–1980	Chaim Weizmann Award for Postdoctoral Training.
1981–1985	The Helena Rubinstein Career Development Chair.
1985	Prof. Stein Prize for Distinguished Work on the Visual System (awarded by Tel Aviv University).
1990	International Award in Ophthalmology, Singapore.
1996	Glaucoma Foundation Award.
1997	Alcon Award for Outstanding Contribution in Eye Research.
1998	Academia Ophthalmologica Internationalis Award for “Skilled Scientist and Eminent Teacher”, June 1998.
2000	Career Woman of the year 2000, Israel

## Scientific Advisory Boards

1994 –	The Glaucoma Foundation, USA
1991	TEVA Ltd. Ad hoc member for Central Nervous System Research
1993–	Member of the scientific advisory board for neuroprotection , Allergan Ltd
1997-1999	Biomedics Investments, Israel
1998-2000	Elected Member in The International Committee of Association for Research in Vision and Ophthalmology (ARVO).
1999–	Member of Medical Advisory Board, The Alan T. Brown Foundation to Cure Paralysis.
2000–	Elected Member of The Scientific Board of The International Society of Neuroimmunomodulation

# **Honorary and Invited Lectures presented at following Symposia and Conferences Since 1990**

- 1 6th International Symposium on Development, Transplantation and Plasticity of the Nervous System, September, 1990.
- 2 European Association of Neurological Societies: European Course on Neurosurgery, Jerusalem, Israel, September, 1990.
- 3 3rd International Conference on Tumor Necrosis Factors and Related Cytokines, Tokyo, Japan, November, 1990.
- 4 4th Otto Loewi Center Meeting on Development and Functioning of Neuronal Networks, Jerusalem, Israel, April, 1991.
- 5 Regional Meeting on Physiological Sciences, Prague, Czechoslovakia, June, 1991.
- 6 Rockefeller University - The Weizmann Institute of Science Symposium on Neuronal Plasticity, Rehovot, Israel, October, 1991.
- 7 International Society of Neuroimmunology: 3rd International Congress (**plenary lecturer**), Jerusalem, Israel, October, 1991.
- 8 2nd International Symposium on Ocular Trauma, Geneva, Switzerland, April 2-5, 1992.
- 9 International Symposium on Eye Research, Stressa, Italy, September, 1992.
- 10 Satellite Symposium of the European Neuroscience Association on Stimulation of Brain Repair, Munich, Germany, September, 1992.
- 11 Philippe Laudat Conference on Cytokines and the Brain, Le Bischoff, France, October, 1992.
- 12 Taniguchi Foundation Symposium on Development and Function in the Visual System, Katata, Japan, November, 1992.
- 13 International Symposium on Low-Energy Laser Biostimulation, Los Angeles, CA, USA, January, 1993.
- 14 Fifth International Symposium on Neural Regeneration, Asilomar, CA, USA, December, 1993.
- 15 FASEB Summer Conference on Interactions of the Nervous and Immune Systems: Peptides, Neurotransmitters, Cytokines, Adhesion Molecules and their Receptors, Copper Mountain, CO, USA, July, 1994.
- 16 Fourth International Conference on Transglutaminases and Protein Cross-Linking Reactions, Budapest, Hungary, August, 1994.
- 17 European Society for Neuroscience, Workshop on the Cross Talk between the Immune and the Nervous Systems, August, 1994.
- 18 Fifteenth Annual Meeting of the Israel Society for Eye and Vision Research (**honorary guest lecturer**), Israel, December, 1994.
- 19 International Symposium on Low-Energy Laser Biostimulation, Los Angeles, CA, USA, January, 1995.
- 20 2nd Annual Think Tank on Optic Nerve Regeneration, Glaucoma Foundation, New York, NY, USA, May, 1995.
- 21 9th International Congress of Immunology, San Francisco, CA, USA, July, 1995.
- 22 International Symposium on Experimental and Clinical Ocular Pharmacology and Pharmaceutics, Geneva, Switzerland, September, 1995.
- 23 11th European Congress on Multiple Sclerosis, Jerusalem, Israel, September, 1995.
- 24 Leading Scientists Meeting on Glaucoma, Tempe, AZ, USA, March, 1996.
- 25 The 3rd Annual Think Tank on Optic Nerve Regeneration, Glaucoma Foundation, New York, NY, USA, May, 1996.
- 26 Fourth Altschul Symposium on Cell Biology and Pathology of Myelin: Evolving Biological Concepts and Therapeutic Approaches, Saskatoon, Canada, June, 1996.
- 27 CNS Regeneration Conference, University of Kentucky, Lexington, KY, USA, June, 1996.
- 28 FASEB Summer Conference on Interactions of the Nervous and Immune Systems, Copper Mountain, CO, USA, July, 1996.

- 29 Amgen Symposium on Trophic Factors in Glaucoma, San Diego, CA, USA, July, 1996.
- 30 International Symposium on Experimental Spinal Cord Repair and Regeneration, Brescia, Italy, October, 1996.
- 31 Winter Glaucoma School. The Grand Cayman. February, 1997.
- 32 Symposium on Neuroprotection and Apoptosis, Uppsala, Sweden, April, 1997.
- 33 First Annual Conference in Association with Vision Research, Molecular, Cellular and Genetic Approaches to Function and Dysfunction of the Retina, Fort Lauderdale, FL, USA, May, 1997.
- 34 Association for Research in Vision and Ophthalmology (ARVO) Symposium on Neuroprotection in Glaucoma, Fort Lauderdale, FL, USA, May, 1997.
- 35 New Horizons in Neuroimmunology, 9th Rappaport Symposium, Israel, May, 1997.
- 36 3rd Meeting of ETRO Working Party on Factor XIII, Eger, Hungary, May, 1997.
- 37 4th Think Tank in Glaucoma, New York, NY, USA, June, 1997.
- 38 XIth Congress of the European Society of Ophthalmology (**guest lecturer**), Hungary, Budapest, June, 1997.
- 39 International Symposium on Experimental and Clinical Ocular Pharmacology and Pharmaceutics, Munich, Germany, September, 1997.
- 40 American Academy of Ophthalmology, San Francisco, CA, October, 1997.
- 41 Neurodegeneration and Neuroprotection in Neurodegenerative diseases. Jerusalem, Israel, November, 1997.
- 42 International Meeting on "Optic Nerve Structure, Function and Neuroprotection", supported by Santen Pharmaceuticals, Portland, OR, USA, November, 1997.
- 43 Bat-Sheva Seminar on Cellular, Molecular and Genetic Aspects of Aging and Longevity, Israel, December, 1997.
- 44 2nd International Glaucoma Symposium, Jerusalem, March, 1998.
- 45 Joint Minerva-GIF meeting on New Strategies and Perspectives in Understanding CNS Disorders, Jerusalem, May, 1998.
- 46 Boehringer Ingelheim Symposium on Brain Repair Strategies for the Treatment of Chronic Neurodegenerative Diseases, Germany, May, 1998.
- 47 Association for Research in Vision and Ophthalmology (ARVO) Symposium on Neuroprotection and Regeneration in Glaucoma, Fort Lauderdale, FL, USA, May, 1998 (symposium moderator).
- 48 The Ocular Drug and Surgical Therapy Update, Laguna Niguel, California, June, 1998.
- 49 International Congress of Academy of Ophthalmology, June, 1998. (**Keynote Lecturer**)
- 50 FASEB Summer Conference on Interaction of the Nervous and the Immune Systems, Copper Mountain, CO, USA, July, 1998 (elected Conference Chairperson and **keynote lecturer**).
- 51 XIII international congress of Eye Research, Paris, July, 1998.
- 52 International Society of Neuroimmunology, Montreal, August, 1998.
- 53 The 4th Annual Think Tank on Optic Nerve Regeneration, Glaucoma Foundation, New York, NY, USA, September, 1998.
- 54 International Symposium on Experimental Spinal Cord Repair and Regeneration, Brescia, Italy, October, 1998.
- 55 Retinal Ganglion Cell Catalyst, Quebec, October, 1998.
- 56 Second Joint Meeting of the International Cytokine Society, symposium on Cytokines and Neuroimmunomodulation, Jerusalem, October, 1998.
- 57 Invited Teacher in Tufts Medical School in a "Course on Neurotoxicity and Neuroprotection" (a part of Continuing Education in Medicine), Boston, October, 1998.
- 58 European Association of Vision and Eye Research (EVER), Symposium on "Neuroprotection in Relation to Ischemia and Glaucoma", Palma de Mallorca, October, 1998.

- 59 Federation of The Israel Societies of Experimental Biology, Symposium on Development and Regeneration in the Nervous System, Jerusalem, December, 1998.
- 60 American Association for the Advancement of Science (AAAS), Symposium on "Brain-Immune Connection: From Popular Myth to Hard Science", Anaheim, California, January, 1999.
- 61 Glaucoma Experts Meeting 1999, St. Moritz, Switzerland, March, 1999.
- 62 2nd International Congress of Autoimmunity, Tel Aviv, March, 1999.
- 63 Alcon Research Institute Symposium, (Alcon Awardees for Outstanding Contributions in the Field of Vision Research), Texas, USA, March 1999.
- 64 Second Spinal Cord Symposium, Paralyzed Veterans of America, Arlington, VA., April, 1999.
- 65 Association for Research in Vision and Ophthalmology (ARVO), Opening symposium of the 1999 meeting on 'Neuroprotection and Neuroregeneration', Florida, May, 1999.
- 66 Frontiers in Spinal Cord Regeneration. 5th Annual Kentucky Spinal Cord and Head Injury Research Trust Symposium, Louisville, June, 1999.
- 67 Fourth Annual Mayo-Luther forum on Hematopoietic Cells, Mayo Clinic, Rochester, Minnesota, June, 1999.
- 68 68, The XIIth Congress of European Society of Ophthalmology, Symposium on Neuroprotection in Glaucoma, Stockholm, June, 1999.
- 69 Fifth IBRO World Congress of Neuroscience, Symposium on "CNS Ischemia and Traumatized neuroprotective approaches", Jerusalem, July, 1999.
- 70 4th International Congress of International Society for Neuroimmunomodulation, Lugano, September, 1999.
- 71 Neural Regeneration Symposium, Asilomar, California, USA, December 1999.
- 72 International Symposium on Experimental Spinal Cord Repair and Regeneration, Brescia, Italy, April, 2000.
- 73 Tenth meeting of The European Neurological Society, Jerusalem, June, 2000.
- 74 FASEB Summer Conference on Interaction of the Nervous and the Immune Systems, July, 2000 (**elected Conference Chairperson**).
- 75 The 3<sup>rd</sup> International symposium on Ocular Pharmacology and Pharmaceutics – ISOPP, Lisbon, February, 2000 (**keynote lecturer**).
- 76 International symposium on Neuroprotection, San Antonio, February, 2000 (**keynote lecturer**).
- 77 American Association of Immunologists, Seattle, May, 2000 (**chairperson of ISNIM symposium and lecturer**).
- 78 Frontier in Molecular Basis of Diseases. Conference on Cell Biology of Neuronal Dysfunction, Paris, October, 2000.
- 79 International Society for Neurotrauma, Xian, China, December, 2000.
- 80 National Health Institute Workshop. The Role of the Immune System in Spinal Cord Injury. Bethesda, MD, April, 2000.
- 81 International Neuroimmunology Symposium. The Next Neuroscience Generation. Berlin, Germany, May, 2000.
- 82 New England Eye Center. Neuroprotection in Glaucoma – 2000. Boston, Massachusetts, June, 2000.
- 83 2<sup>nd</sup> Neuroprotection Consensus Meeting: "Neuroprotection: Possibilities in Perspective". London, UK, June, 2000.
- 84 5<sup>th</sup> International Symposium on Ocular Trauma. (**Keynote lecture**) Montreal, Quebec, Canada, July, 2000.
- 85 International Seminar. Inflammatory Cytokines and Chemokines in the Context of Extracellular Matrix. Jerusalem, Israel, September, 2000.
- 86 Research to Prevent Blindness Workshop. Glaucoma: A Novel Neuronal Degeneration? Sarasota, Florida, March, 2001.

- 87 National Multiple Sclerosis Society. Neuronal Injury in MS and Related Disorders: Mechanisms and Prevention. New Orleans, Louisiana, March, 2001.
- 88 The American Society of Immunologists, Orlando, Florida, April, 2001.
- 89 International Society of Neuroimmunology, Scotland, September 2001.
- 90 European Society of Neuroimmunology, Paris, June 2001.